## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of	of Transmittal of International Search Report								
P400453WO	ACTION (Form PCT/ISA/2	220) as well as, where applicable, item 5 below.								
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)								
PCT/GB 03/03904 ·	10/09/2003	20/09/2002								
Applicant										
SOIL MACHINE DYNAMICS LIMI	ITED									
This International Search Depot has been										
according to Article 18. A copy is being tra	n prepared by this International Searching Autransmitted to the International Bureau.	nonty and is transmitted to the applicant								
This International Search Report consists	of a total of4 sheets.									
It is also accompanied by a copy of each prior art document cited in this report.										
Basis of the report		:								
a. With regard to the language, the language in which it was filed, unle	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the								
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this								
b. With regard to any nucleotide and was carried out on the basis of the	d/or amino acid sequence disclosed in the in	ternational application, the international search								
l T1	nal application in written form.	•								
filed together with the international application in computer readable form.										
<u> </u>	furnished subsequently to this Authority in written form.									
	this Authority in computer readble form. sequently furnished written sequence listing do	oes not go boyand the displacare in the								
international application as	s filed has been furnished.									
the statement that the information furnished	nformation recorded in computer readable form is identical to the written sequence listing has been									
2. Certain claims were foun	nd unsearchable (See Box I).									
3. Unity of invention is lack	Unity of invention is lacking (see Box II).									
4. With regard to the title.										
X the text is approved as sub	omitted by the applicant.									
the text has been establish	the text has been established by this Authority to read as follows:									
5. With regard to the abstract,										
within one month from the	ed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	, as it appears in Box III. The applicant may, ort, submit comments to this Authority.								
6. The figure of the <b>drawings</b> to be publis	shed with the abstract is Figure No.	1								
as suggested by the application		None of the figures.								
because the applicant failer										
because this figure better c	naracterizes the invention.									

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/GB 03/03904

CLASSIFICATION OF SUBJECT MATTER PC 7 F03B13/26 F03B IPC 7 F03B15/00 F03B15/08 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 F<sub>0</sub>3B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, COMPENDEX, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 9 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Υ WO 01 34973 A (PAS PETER ALEXANDER 1-5,8,JOSEPHUS) 17 May 2001 (2001-05-17) 10-14,16page 1, line 2 page 4, line 9 - line 22 page 6, line 13,14; figures 2,3 6,7 9,15 GB 2 348 250 A (I T POWER LIMITED) 1-5,8,10 - 14, 1627 September 2000 (2000-09-27) abstract page 10, line 3 - line 9 page 10, line 29 -page 11, line 26; figures 6,7 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-O document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 18 December 2003 12/01/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Criado Jimenez, F

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## INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/03904

C.(Continu	lation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCI/GB U3	PC1/GB 03/03904			
Category °			10:1			
	Proposition of the Passages	_	Relevant to claim No.			
Y	WO 02 057623 A (OCEAN POWER TECHNOLOGIES INC) 25 July 2002 (2002-07-25) page 9, paragraph 5 -page 13, paragraph 1; figures 5,5A		6,7			
Υ .	FR 2 324 895 A (NEYRPIC CREUSOT LOIRE) 15 April 1977 (1977-04-15) claim 1		9,15			
A	US 5 440 176 A (HAINING MICHAEL L) 8 August 1995 (1995-08-08) column 2, line 23 - line 32; figures		1			
A	US 4 754 156 A (BANDO AKIRA ET AL) 28 June 1988 (1988-06-28) column 3, line 35 -column 4, line 34		2-5			
			·			
		·				
	continuation of second sheet) ( hith 1992)					

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB 03/03904

Patent documer cited in search rep		Publication date		Patent family member(s)	Publication date
WO 0134973	А	17-05-2001	NL AU CA	1013559 C2 1742101 A 2391538 A1	28-05-2001 06-06-2001 17-05-2001
		*	EP	1228309 A1	07-08-2001
			WO	0134973 A1	17-05-2001
			NL	1013559 A1	18-05-2001
GB 2348250	A	27-09-2000	 AU	766741 B2	23-10-2003
			AU	2681900 A	14-09-2000
			CA	2367715 A1	31-08-2000
			EP	1183463 A1	06-03-2002
			WO	0050768 A1	31-08-2000
		~	US 	6652221 B1	25-11-2003
WO 02057623	3 A	25-07-2002	EP	1364124 A1	26-11-2003
•			WO	02057623 A1	25-07-2002
			US 	2003001392 A1	02-01-2003
FR 2324895	Α	15-04-1977	FR	2324895 A1	15-04-1977
			BR 	7604225 A	05-04-1977
US 5440176	Α	08-08-1995	AU	687629 B2	26-02-1998
			ΑU	3423895 A	02-05-1996
			CA	2160756 A1	19-04-1996
			EP	0708241 A2	24-04-1996
			JP	8210237 A	20-08-1996
			NO 	954156 A	19-04-1996
US 4754156	Α	28-06-1988	JP	2585233 B2	26-02-1997
			JP	63100276 A	02-05-1988
			CA	1266506 A1	06-03-1990